

FUGILLIJS POTENTILLARUM *

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All the specimens cited below are preserved in the Herbarium of the Division of Botany and Plant Pathology, Department of Agriculture, Ottawa, Canada, except those marked (SWC) which are to be found in the Herbarium of the Experimental Station at Swift Current in Saskatchewan.

I - Comarum (L.) Boivin

POTENTILLA L. subgenus Comarum (L.) stat. n., Comarum L., Sp. pl. 1:502. 1753 et Gen. Pl. ed. 5, 1754.

POTENTILLA PALUSTRIS (L.) Scop. f. GLANDULOSA Gunnarsson; P. palustris (L.) Scop. var. villosa (Pers.) Lehm. (Vide Rhodora 16:5-11. 1914).

This variation, more glandular and with leaves velvety above, occurs in Canada from the Maritime Provinces to British Columbia. It seems to be an ecological variant and does not appear to present a distinct geographical range, neither in Canada nor in the range of the species as a whole.

II - Sibbaldiopsis (Rydb.) Boivin

POTENTILLA L. subgenus Sibbaldiopsis (Rydb.) stat. n., Sibbaldiopsis Rydberg, Mem. Dep. Bot. Col. U. 2:187, 1897.

III - Potentilla

POTENTILLA BIPINNATIFIDA Douglas. Appears to be related to P. multifida L. et least as much as to P. Pensylvanica L. to which it is often subordinated as a variety.

Specimens examined from Manitoba, Saskatchewan, Alberta and Mackenzie.

POTENTILLA CONCINNA Rich. var. dissecta (Watson) stat. n.; Potentilla nivea L. var. dissecta Watson, Proc. Am. Ac. 8:559. 1873; Potentilla concinna Rich. var. divisa Rydb; Bull. Torrey Club 23:431. 1896 (nomen illegitimum); Potentilla divisa Rydb. N. Am. Fl. 22:330. 1908. Does not seem to differ from the typical phase except by its more deeply divided leaf-

lets.

Specimens examined from Saskatchewan (Cypress Hills).

POTENTILLA GRACILIS Douglas var. ctenophora (Rydb.)
stat. n., Potentilla flabelliformis Lehm. var. ctenophora Rydb.,
Bull. Torr. Club. 24:7. 1897.

Phase with leaflets pectinati-partite to pectinate.

Specimens examined from Saskatchewan and Alberta.

POTENTILLA GRACILIS Douglas var. filipes (Rydb.) stat.
n.; P. filipes Rydb., Bull. Torr. Club 28:174-5. 1901; P. pul-
cherrima Douglas var. filipes (Rydb.) Th. Wolf, Bibl. Bot. 16,
71:209. 1908; P. camporum Rydb., N. Am. Fl. 22:319. 1908.

Plant smaller with leaflets white tomentose below.

Specimens examined from Saskatchewan and Alberta.

POTENTILLA HIPPIANA Lehm. var. HIPPIANA. New to
Ontario:

Ontario: C.E. Garton 1219, Thunder Bay District, Sibley
Peninsula, Surprise Lake, Silver Islet, dry stony soil, July 27,
1950 (DAO).

POTENTILLA HIPPIANA Lehm. var. argyrea (Rydb.) stat.
n., Potentilla argyrea Rydberg, N. Am. Fl. 22:341. 1908.

Differs from var. hippiana only by its leaflets white
tomentose above.

Specimens examined from Saskatchewan and Alberta.

POTENTILLA MULTIFIDA L. Range extension and new to
the Gray's Manual range:

Ontario, Thunder Bay: C.E. Garton 1218, Sibley Peninsula,
Surprise Lake, Silver Islet, dry stony ridge, July 27, 1950
(DAO).

POTENTILLA PENNSYLVANICA L. var. PENNSYLVANICA; P. pecti-
nata Raf., Aut. Bot. 164. 1840, nec P. pectinata Auctorum.

As a synonym of his P. pectinata, Rafinesque gave P.
pensylvanica L. The name thus created by Rafinesque is there-
fore illegitimate and should fall into the synonymy of P.
pensylvanica L.

Specimens examined from Manitoba, Saskatchewan, Alberta, British Columbia, Mackenzie and Yukon.

POTENTILLA PENNSYLVANICA L. var. arida var. n.;

Potentilla strigosa Rydberg, pro parte (typ. excl.), nec verosimiliter P. strigosa Pallas nomen, nec P. pensylvanica L. var. strigosa Pursh, Fl. Am. Sept. 1:356. 1814. Pubescentia densior, eglandulosa vel glandulositate saepius obscura, petiolorum pilis patentibus saepius 1-2-(3) mm, caulinum saepius sicut petiolorum. Planta saepius erectior et brevior, nonnunquam tamen alta vel basa decumbens. Typus: Boivin & Gillett 8910, Saskatchewan, district de Maple Creek, 3 milles à l'ouest de Gull Lake, dunes fixées, 15 août 1951 (DAO type).

Ontario, Kenora: W.N. Denike 662, Ingolf.

Manitoba, Brandon: H. Marshall 33, Brandon, dry hills; Lisgar: H. Groh, Morden, July, 1921; H. Groh, La Riviere, plains, June 18, 1932; H. Groh, Aweme, plains, June 9, 1932; Neepawa: Boivin & Breitung 6516, Sydney, sand dunes lightly covered with aspen and oak; Senn & Gordon 3140, Carberry, dry sandy hillside; Boivin & Breitung 6592; Lyleton, natural prairie; J.L. Bolton, Lyleton, open prairie, July 8, 1937 (SWC).

Saskatchewan: S.J. Neville, Cottonwood; Assiniboia:

Boivin & Dore 7959, southeast of Hitchcock, dry Bouteloua prairie; Boivin & Dore 8027, Roche Percee, at top of dry slope; Humboldt: H.A. Senn 2964, 2956, Watrous, dry prairie; Kindersley: L. Jenkins 679, Hoozier; Mackenzie: J.S. Rowe 240, Preeceville, sandy grassy ridge; A.J. Breitung 732, Hudson Bay Junction, dry sandy soil; Maple Creek: Frankton 293, Robsart, dry coulee; Senn, Tisdale & Budd 2444, Robsart, dry prairie; Senn, Tisdale & Budd 2359, Cypress Hills Park, dry areas; A.J. Breitung 5008, 5700, 5701, 4437, Cypress Hills, prairie; Coupland & Budd 25, 26, Maple Creek; A.C. Budd 29, 30, Cypress Hills Park; J.B. Campbell, Maple Creek, prairie, June 10, 1939 (SWC); Melfort: A.J. Breitung 407, McKague, gravel pit; A.J. Breitung 291, McKague, along road; Melville: Russell & Russell S3702, Elbourne, open prairie; Lake Centre: W. Shevkenek 119, Qu'Appelle Valley, hillsides; Boivin & Dore 7688, Spy Hill, Agassiz coulée, top of south-facing scarp; North Battleford: B. Boivin 6922, Flat Valley, sommet de l'écorce le long de la rivière Beaver; Boivin & Breitung 6753, Radisson, prairie; Prince Albert: Senn, Groh & Russell 2906, Macdowall, dry sandy woodland; Boivin & Breitung 6120, Niabet Provincial Forest, sandy Jack Pine woods; Qu'Appelle: Boivin & Gillett 8457, Wolseley, écorce d' un ruisseau; Russell & Russell S4522, Pilot Butte, July 5, 1945; Rosthern: Russell & Russell, Dana, dry hillside, July 3, 1936; Senn, Groh & Russell 2752, Dana, dry hillside; Senn, Groh & Russell 2810,

St. Louis, dry sandy plain; Saskatoon: R.C. Russell S2969, Pike Lake, sandy prairie; W.P. Fraser 17, 18, Saskatoon, low ground by dry slough (SWC); Boivin & Russell & Breitung 6715, Pike Lake, sandy soil; Swift Current: C. Frankton 174, Webb, range; A.J. Breitung 3956, 3976, 4017, 4033, 5780, Swift Current, dry prairie; A.C. Budd, Swift Current, June 10, 1934 (SWC); A.C. Budd 28, 62, Swift Current; A.C. Budd 34, 35, 37, 43, 150, Chaplin; A.C. Budd 39, Courval; A.C. Budd 27, Lorryford; A.C. Budd 44, Courval (DAO, SWC); A.C. Budd 33, Leiman; A.C. Budd 36, Valjean; Weyburn: W. Shevkenek 178, Big Muddy Valley; Boivin & Dore 7954, Macoun, dry embankment; Boivin & Dore 7848, Weyburn, dry hillside; Wood Mountain: Boivin & Gillett 8687, Bengough, coulée Hudson, prairie aride; Boivin & Gillett 8743, Bengough, affleurement de grès; J.L. Bolton, Bengough, open prairie, July 17, 1938; Yorkton: R.S. Russell S2922, Punnichy, open prairie on dry soil; Russell & Russell S4814, Copeland, hill on prairie; L.T. Carmichael 164, Yorkton; W. Shevkenek, Theodore, sandy soil; C. Shaw 51a, Yorkton, prairie.

Alberta, Acadia: A.H. Brinkman 5169, 5215, Craigymle, grassland; Lethbridge: C. Frankton 224, Lethbridge, hills; Macleod: E.H. Moss 715, Macleod, prairie gravelly soil; E.H. Moss 338, Castle River, river flats; E.H. Moss 243, Pincher, prairie, sandy loam; E.W. Tisdale 38, Pincher Creek; Medicine Hat: A.C. Budd 32, Cypress Hills, West Block, bench (DAO, SWC); Tisdale & Coupland 161, Medicine Hat; Peace River: L. Jenkins 186, 731(c), 350, Beaverlodge, dry places of open woods; E.H. Moss 7435, Prestville, dry slope; E.H. Moss 7501, Spirit River, native grassland; Vegreville: G.H. Turner 25, Fort Saskatchewan, open prairie.

British Columbia, Cariboo: E.H. Moss 8167, Fort St. John, dry steep slope of creek valley.

North Dakota, Ward: Boivin & Dore 8064, Bowbells, dry hillside.

South Dakota: O. Tollefson 2, Custer State Park.

New Mexico: Heller & Heller 3795, Santa Fe Canon.

Pursh's description of var. strigosa reads as follows: "cano-pubescens; foliis pectinato-dentatis margine revolutis, floribus corymbosis". This description does not seem to apply to this plant. The description of the pubescence in particular would seem to apply to a plant similar to P. bipinnatifida Douglas.

POTENTILLA PENNSYLVANICA L. var. GLABRATA (Hooker)
Watson. Range extension and apparently new to Ontario:

Ontario, Thunder Bay: C.E. Garton 1694, Hardwick Township, Sanstone Lake Road at Junction of Roundtable Lake Road, gravelly bank, 29 Aug., 1951 (DAO).

POTENTILLA PENNSYLVANICA L. var. litoralis (Rydberg) stat. n., Potentilla litoralis Rydberg, Bull. Torr. Bot. Club 23:264. 1896, nec Anserina litoralis Rydberg, N. Am. Fl. 22:354. 1908, nec Potentilla litoralis (Rydb.) Fedde, Just. Bot. Jahr. 36,2:488. 1910; Potentilla pectinata Raf., Aut. Bot. 164. 1848 pro parte, typo excl., Potentilla pectinata Auctorum.

This entity does not appear to be sufficiently distinct to warrant retention at specific rank.

Specimens examined from Nova Scotia (Atlantic coast), Quebec (coast of Saint Lawrence Gulf), Ontario (Thunder Bay District), and Manitoba (Hudson Bay coast).

POTENTILLA RECTA L. var. OBSCURA (Nestler) Koch.
Locally naturalized in Canada.

Specimens examined from Ontario (Sibley Peninsula, Beausoleil and Manitoulin Islands, Brussels, Warton and Oakville) and Saskatchewan (Caron).

POTENTILLA RECTA L. var. PILOSA (W.) Led. Locally naturalized in Canada in the vicinity of Kingston and Preston (Ontario).

POTENTILLA RECTA L. var. SULPHUREA (Lam. & DC.) Peyr. Introduced from Europe and abundantly naturalized in the more southern parts of Eastern Canada. It is the commoner of our three varieties and is easily distinguished by its middle and lower stem leaves which commonly have 7 leaflets in var. sulphurea and only 5 in the other two varieties.

Specimens examined from Nova Scotia, Quebec, Ontario, Saskatchewan (Swift Current) and British Columbia (Kimberley and Bridesville).

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